

METHOD FOR TREATING POLYETHYLENE TEREPHTHALATE

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Abstract of JP5097990

PURPOSE: To reduce an amount of an oligomer formed in molding and to reduce white powder formed in a mold during molding by bringing pellets of polyethylene terephthalate obtained by solid-phase polymerization into contact with an aqueous solution of phosphoric acid having \geq a specific concentration. **CONSTITUTION:** Pellets of polyethylene terephthalate obtained by solid-phase polymerization of an acid component comprising $\geq 85\text{mol}\%$ terephthalic acid and a glycol component comprising $\geq 85\text{mol}\%$ ethylene glycol, having preferably $\geq 0.65\text{dl/g}$ intrinsic viscosity [phenol tetrachloroethane (weight ratio 60/40), 35 deg.C] and preferably $\leq 0.35\text{wt.}\%$ oligomer content are brought into contact with $\geq 1\text{ppm}$, preferably $\geq 10\text{ppm}$ -10wt.%, more preferably 100ppm-5wt.% aqueous solution of phosphoric acid by batch method or continuous treating method and dried. The treating time is adjusted by concentration of the aqueous solution of phosphoric acid, temperature, size of pellets, oligomer content, etc. The treatment has excellent effects on reduction of white powder attached to a mold during molding.

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